

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	39	(roger same fleming).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 08:17
S54	1	(new additional replacement) near5 (process\$6) same (replac\$5 add adding remov\$5) same (simultaneous\$5) same (determin\$5 evaluat\$5) and (fault\$5) near4 (toleran\$5) and "709"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 08:16
S53	0	(new additional replacement) near5 (process\$6) same (replac\$5 add adding remov\$5) same (simultaneous\$5) same (determin\$5 evaluat\$5) and (fault\$5) near4 (toleran\$5) and 712/10,228,229 cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:34
S52	1	(new additional replacement) near5 (process\$6) same (replac\$5 add adding remov\$5) same (simultaneous\$5) same (determin\$5 evaluat\$5) and (fault\$5) near4 (toleran\$5) and 717/168,174,175, 176.cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:33
S51	1	(new additional replacement) near5 (process\$6) same (replac\$5 add adding remov\$5) same (simultaneous\$5) same (determin\$5 evaluat\$5) and (fault\$5) near4 (toleran\$5) and 707/204.cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:33
S49	1	(new additional replacement) near5 (process\$6) same (replac\$5 add adding remov\$5) same (simultaneous\$5) same (determin\$5 evaluat\$5) and (fault\$5) near4 (toleran\$5) and 714/15,13.cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:32
S50	14	("4093985" "4941087" "4954941" "5077736" "5287492" "5410703" "5751574" "5761518" "5963634" "6157932" "6195760" "6421741" "6449733" "6535924").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/17 17:30
S48	1	(new additional replacement) near5 (process\$6) same (replac\$5 add adding remov\$5) same (simultaneous\$5) same (determin\$5 evaluat\$5) and (fault\$5) near4 (toleran\$5) and S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:28
S47	12	(new additional replacement) near5 (process\$6) same (replac\$5 add adding remov\$5) same (simultaneous\$5) same (determin\$5 evaluat\$5) same (fault\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:27
S42	682	(new additional replacement) near5 (process\$6) same (replac\$5 add adding remov\$5) same (simultaneous\$5) same (determin\$5 evaluat\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:24
S46	2	"6694450".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:23

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S45	2	"6016505".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:23
S44	8	(new additional replacement) near5 (process\$6) same (replac\$5 add adding remov\$5) same (simultaneous\$5) and (determin\$5 evalua\$5) near4 (context\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:21
S43	0	(new additional replacement) near5 (process\$6) same (replac\$5 add adding remov\$5) same (simultaneous\$5) same (determin\$5 evalua\$5) near4 (context\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:18
S41	4870	(new additional replacement) near5 (process\$6) same (replac\$5 add adding remov\$5) same (simultaneous\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:16
S40	2274	S38 and S39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:13
S39	73226	(process\$6) near3 (membership group) and (replac\$5 add adding remov\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:13
S7	25	(process\$6) near3 (membership) and (view near4 configuration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:10
S38	44628	"709"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 17:06
S37	7	(process) same (membership) and (join\$5) same (fail\$5) same (replac\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:21
S32	403	(process) same (membership) and (join\$5) and (fail\$5) and (replac\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:21
S36	276	(process) same (membership) and (join\$5) and (fail\$5) and (replac\$5) and (context)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:16

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S35	2	(process) same (membership) and (join\$5) and (fail\$5) and (replac\$5) and (context near3 transfer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:16
S33	0	(process) same (membership) and (join\$5) and (fail\$5) and (replac\$5) and (state near4 Transfer45)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:16
S34	0	(process) same (membership) and (state near4 Transfer45)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:15
S31	3759	(process) same (membership)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:13
S30	11	(process) same (membership) same (join) same(fail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:13
S29	1	(mirror\$5) and (process) same (membership) same (join) same(fail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:10
S28	25	(mirror\$5) and (process) same (join) same(fail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:10
S27	2	(mirror\$5) same (process) same (join) same(fail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:07
S26	0	(mirror\$5) near4 (process) same (join) same(fail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:07
S25	1	(replac\$5) near3 (copy) near4 (process) same (join) same(fail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:07
S24	1973946	(replac\$5) (copy) near4 (process) same (join) same(fail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:06

EAST Search History

S23	19	(process) same (join) same(fail) same (copy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:06
S22	3	(process) same (join) same(fail) same (mirror redundant)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 16:01
S21	0	S19 and (process) same (join) same(fail) same (mirror redundant)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 15:59
S20	0	S19 and (process) same (join) same(fail) same (mirror redundant)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 15:59
S19	40606	"709"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 15:59
S9	160	S1 and (process) near3 (membership)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 15:58
S18	2	"5799146".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 15:31
S17	2	"5787249".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 15:31
S16	2	"5787259".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 15:27
S15	2	"6016505".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 15:26
S13	4	2003/0069874 and hertzog	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 10:59
S14	1	"20030069874".PN	US-PGPUB	OR	ON	2005/11/29 10:34

EAST Search History

S12	0	2003/0049874	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 10:33
S11	2	"6104871".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 10:33
S10	2	"6694369".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 10:19
S8	2	S1 and (process) near3 (membership) and (view near4 configuration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 09:40
S6	1	(process\$6) near3 (membership) same (view near4 configuration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 09:05
S5	0	(process\$6) near3 (membership) same (agreement vote) same (view near4 configuration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 09:04
S4	0	(process\$6) near3 (membership) near5 (agreement vote) same (view near4 configuration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 09:04
S3	0	(process) near3 (membership) near5 (agreement vote) same(fault near4 tolerant) same (view near4 configuration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 09:03
S2	0	(process) near3 (membership) near5 (agreement vote) same(fault near4 tolerant) same (iew near4 configuration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 09:03
S1	40606	"709"/\$.ccls:	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/29 08:58

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IEEE JNL IEEE Journal or Magazine

1. **Partition scheduling in APEX runtime environment for embedded avionic**
 Yann-Hang Lee; Daeyoung Kim; Younis, M.; Zhou, J.;
Real-Time Computing Systems and Applications, 1998. Proceedings. Fifth International Conference on
 27-29 Oct. 1998 Page(s):103 - 109
 Digital Object Identifier 10.1109/RTCSA.1998.726357
Abstract | Full Text: [PDF\(112 KB\)](#) [IEEE CNF Rights and Permissions](#)

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

2. **Virtual cut-through implementation of the HB packet switching routing algorithm**
 Palazari, P.; Coli, M.;
Parallel and Distributed Processing, 1998. PDP '98. Proceedings of the Sixth IEEE Workshop on
 21-23 Jan. 1998 Page(s):416 - 421
 Digital Object Identifier 10.1109/EMPDP.1998.647228
Abstract | Full Text: [PDF\(600 KB\)](#) [IEEE CNF Rights and Permissions](#)

3. **Multiple bus-based hierarchical multiprocessors and their bandwidth analysis**
 Mahmud, S.M.; Samaratunga, L.T.; Munteanu, M.D.;
Algorithms and Architectures for Parallel Processing, 1996. ICAPP '96, 1996 IEEE International Conference on
 11-13 June 1996 Page(s):311 - 318
 Digital Object Identifier 10.1109/ICAPP.1996.562890
Abstract | Full Text: [PDF\(568 KB\)](#) [IEEE CNF Rights and Permissions](#)

4. **Fault-tolerance in a high-speed 2D convolver/correlator: Starloc**
 Napolitano, L.M., Jr.; Andaleon, D.D.; Berry, K.R.; Bryson, P.R.; Klapp, S.R.; L Redinbo, G.R.;
Fault-Tolerant Computing, 1989. FTCS-19. Digest of Papers., Nineteenth International Symposium on
 21-23 June 1989 Page(s):80 - 87
 Digital Object Identifier 10.1109/FTCS.1989.105547
Abstract | Full Text: [PDF\(756 KB\)](#) [IEEE CNF Rights and Permissions](#)

5. **Some new algorithms for reconfiguring VLSI/WSI arrays**

Varvarigou, T.; Roychowdhury, V.P.; Kailath, T.;
Wafer Scale Integration, 1990, Proceedings, [2nd] International Conference on
23-25 Jan. 1990 Page(s):229 - 235
Digital Object Identifier 10.1109/ICWSI.1990.63905
[Abstract](#) | [Full Text: PDF\(328 KB\)](#) | [IEEE CNF](#)
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6. Fault tolerance techniques for avionics waveform array processors
Duncan, R.;
Digital Avionics Systems Conference, 1990, Proceedings, IEEE/AIAA/NASA 9
15-18 Oct. 1990 Page(s):344 - 349
Digital Object Identifier 10.1109/DASC.1990.111312
[Abstract](#) | [Full Text: PDF\(364 KB\)](#) | [IEEE CNF](#)
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7. Fault-tolerance for multistage Interconnection networks
Siu-Cheung Chau; Weining Zhang; Liestman, A.L.;
Computing and Information, 1992, Proceedings, ICCI '92, Fourth International
28-30 May 1992 Page(s):430 - 435
Digital Object Identifier 10.1109/ICCI.1992.227619
[Abstract](#) | [Full Text: PDF\(476 KB\)](#) | [IEEE CNF](#)
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8. Monitoring drilling wear state using vibration based diagnosis
Jaume, D.; Verge, M.; Bernede, D.;
Systems, Man and Cybernetics, 1993, Systems Engineering in the Service of Conference Proceedings, International Conference on
17-20 Oct. 1993 Page(s):78 - 83 vol.3
Digital Object Identifier 10.1109/ICSMC.1993.384989
[Abstract](#) | [Full Text: PDF\(328 KB\)](#) | [IEEE CNF](#)
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9. Evolvable hardware for fault-tolerant applications
Ortega, C.; Tyrrell, A.;
Evolvable Hardware Systems (Digest No. 1998/233), IEE Half-day Colloquium
3 March 1998 Page(s):4/1 - 4/5
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10. Arc welding seam tracking system based on artificial neural networks
Kreft, L.; Scheller, W.;
Intelligent Systems Engineering, 1994, Second International Conference on
5-9 Sep 1994 Page(s):177 - 182
[Abstract](#) | [Full Text: PDF\(356 KB\)](#) | [IEEE CNF](#)

11. Behavioral-level synthesis of heterogeneous BISR reconfigurable ASIC's
Guerra, L.M.; Potkonjak, M.; Rabaey, J.M.;
Very Large Scale Integration (VLSI) Systems, IEEE Transactions on
Volume 6, Issue 1, March 1998 Page(s):158 - 167
Digital Object Identifier 10.1109/92.661258
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12. Concepts and methods in fault-tolerant control
Blanke, M.; Staroswiecki, M.; Wu, N.E.;
American Control Conference, 2001, Proceedings of the 2001
Volume 4, 25-27 June 2001 Page(s):2606 - 2620 vol.4
Digital Object Identifier 10.1109/ACC.2001.946264
[Abstract](#) | [Full Text: PDF\(1240 KB\)](#) | [IEEE CNF](#)

Rights and Permissions**13. Process hijacking.**

Zandy, V.C.; Miller, B.P.; Livny, M.;
High Performance Distributed Computing, 1999, Proceedings, The Eighth International Symposium on
3-6 Aug. 1999 Page(s):177 - 184
Digital Object Identifier 10.1109/HPDC.1999.805296
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14. A recovery model for extended real-time transactions

Nett, E.; Mock, M.;
High-Assurance Systems Engineering Workshop, 1997, Proceedings
11-12 Aug. 1997 Page(s):124 - 127
Digital Object Identifier 10.1109/HASE.1997.648050
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15. Componentwise decomposition for an efficient reliability computation of repairable components

Balakrishnan, M.; Trivedi, K.;
Fault-Tolerant Computing, 1995, FTCS-25, Digest of Papers, Twenty-Fifth International Symposium on
27-30 June 1995 Page(s):259 - 268
Digital Object Identifier 10.1109/FTCS.1995.466972
[Abstract](#) | [Full Text: PDF\(824 KB\)](#) | [IEEE CCF](#)
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16. Object memory and storage management in the Clouds kernel

Pitts, D.V.; Dasgupta, P.;
Distributed Computing Systems, 1988, 8th International Conference on
13-17 June 1988 Page(s):10 - 17
Digital Object Identifier 10.1109/DCS.1988.12494
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17. The Clouds distributed operating system: functional description, implementation and related work

Dasgupta, P.; LeBlanc, R.J., Jr.; Appelbe, W.F.;
Distributed Computing Systems, 1988, 8th International Conference on
13-17 June 1988 Page(s):2 - 9
Digital Object Identifier 10.1109/DCS.1988.12493
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18. Fault-tolerance in the Advanced Automation System

Cristian, F.; Dancey, B.; Dehn, J.;
Fault-Tolerant Computing, 1990, FTCS-20, Digest of Papers, 20th International
26-28 June 1990 Page(s):6 - 17
Digital Object Identifier 10.1109/FTCS.1990.89361
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19. Proteus system architecture and organization

Somani, A.K.; Wittenbrink, C.; Haralick, R.M.; Shapiro, L.G.; Jenq-Neng Hwang; Chen; Johnson, R.; Cooper, K.;
Parallel Processing Symposium, 1991, Proceedings, Fifth International
30 April-2 May 1991 Page(s):287 - 294

Digital Object Identifier 10.1109/ICPR.1992.202128

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20. Proteus: a reconfigurable computational network for computer vision

Haralick, R.M.; Somani, A.K.; Wittenbrink, C.; Johnson, R.; Cooper, K.; Shapiro, I.T.; Hwang, J.-N.; Cheung, W.; Yao, Y.H.; Chen, C.H.; Yang, L.; Daugherty, B.; Loving, K.; Miller, T.; Parkins, L.; Soos, S.;

[Pattern Recognition, 1992, Vol. IV, Conference D: Architectures for Vision and Recognition, Proceedings, 11th IAPR International Conference on](#)

30 Aug.-3 Sept. 1992 Page(s):43 - 54

Digital Object Identifier 10.1109/ICPR.1992.202128

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21. Error detection, fault location and reconfiguration for 2D mesh processing arrays for digital signal processing

Guoning Liao;

[VLSI Test Symposium, 1993, Digest of Papers, Eleventh Annual 1993 IEEE](#)

6-8 April 1993 Page(s):55 - 61

Digital Object Identifier 10.1109/VTEST.1993.313308

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22. Heterogeneous BISR techniques for yield and reliability enhancement using synthesis transformations

Potkonjak, M.M.; Guerra, L.M.; Rabaey, J.M.;

[Application-Specific Array Processors, 1993, Proceedings, International Conference on](#)

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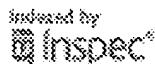
Digital Object Identifier 10.1109/ASAP.1993.397166

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Published before May 2001

Terms used replace process fault tolerance fault tolerant

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1 [A message system supporting fault tolerance](#)

Anita Borg, Jim Baumbach, Sam Glazer

 October 1983 **ACM SIGOPS Operating Systems Review , Proceedings of the ninth ACM symposium on Operating systems principles SOSP '83**, Volume 17 Issue 5

Publisher: ACM Press

Full text available: [pdf\(1.07 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A simple and general design uses message-based communication to provide software tolerance of single-point hardware failures. By delivering all interprocess messages to inactive backups for both the sender and the destination, both backups are kept in a state in which they can take over for their primaries. An implementation for the Auragen 4000 series of M68000-based systems is described. The operating system, AurostTM, is a distributed version of UNIX*. Majo ...


2 [Design of fault-tolerant associative processors](#)

Behrooz Parhami, Algirdas Avizienis

 December 1973 **ACM SIGARCH Computer Architecture News , Proceedings of the 1st annual symposium on Computer architecture ISCA '73**, Volume 2 Issue 4

Publisher: ACM Press

Full text available: [pdf\(479.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent advances in computer technology have made the design of large and very flexible associative processors possible. Such systems are extremely complex and must be adequately protected against failures if they are to be used in critical application areas such as air traffic control or for performing control functions in fault-tolerant computers. This paper summarizes the results of a study which has indicated the techniques that are applicable in the design of fault tolerant associative ...


3 [On designing a reconfigurable modular fault-tolerant binary tree architecture](#)

Weng-Keng Seow, Bidyut Gupta

 April 1991 **Proceedings of the 19th annual conference on Computer Science**

Publisher: ACM Press

Full text available: [pdf\(555.22 KB\)](#) Additional Information: [full citation](#), [references](#)

4

4 Understanding fault-tolerant distributed systems**Flavin Cristian****February 1991 Communications of the ACM, Volume 34 Issue 2****Publisher: ACM Press**Full text available:  [pdf\(6.17 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#),
[review](#)**5 Reliability Issues in Computing System Design****B. Randell, P. Lee, P. C. Treleaven****June 1978 ACM Computing Surveys (CSUR), Volume 10 Issue 2****Publisher: ACM Press**Full text available:  [pdf\(3.95 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**6 Session: Maintaining consistency in distributed systems****Kenneth P. Birman****September 1992 Proceedings of the 5th workshop on ACM SIGOPS European workshop: Models and paradigms for distributed systems structuring****Publisher: ACM Press**Full text available:  [pdf\(520.75 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

The emerging generation of database systems and general purpose operating systems share many characteristics: object orientation, a stress on distribution, and the utilization of concurrency to increase performance. A consequence is that both types of systems are confronted with the problem of maintaining the consistency of multi-component distributed applications in the face of concurrency and failures. Moreover, large applications can be expected to combine database and general purpose compone ...

7 Software engineering for real-time: a roadmap**Hermann Kopetz****May 2000 Proceedings of the Conference on The Future of Software Engineering****Publisher: ACM Press**Full text available:  [pdf\(1.03 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: composable, distributed systems, real-time systems, system architecture, validation

8 Predictive deadline multi-processing**Frank W. Miller****September 1990 ACM SIGOPS Operating Systems Review, Volume 24 Issue 4****Publisher: ACM Press**Full text available:  [pdf\(716.45 KB\)](#)Additional Information: [full citation](#), [index terms](#)**9 Fault-tolerant distributed simulation****Om. P. Damani, Vijay K. Garg****July 1998 ACM SIGSIM Simulation Digest , Proceedings of the twelfth workshop on Parallel and distributed simulation PADS '98, Volume 28 Issue 1****Publisher: IEEE Computer Society, ACM Press**

Full text available:  [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
[Publisher Site](#)

10 [BFS—realization of a fault-tolerant architecture](#)



Gerhard W. Geitz, Ernst J. Schmitter

May 1981 **Proceedings of the 8th annual symposium on Computer Architecture**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(483.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper considers possibilities of distributed architecture to improve the reliability of microcomputer systems to realize a fault-tolerant system. By using and extending existing redundancies of hardware, software, and time, a partially meshed ring structure that meets the requirements of a fault-tolerant architecture has been designed. Aspects of hardware implementation, system software structure, operating system requirements, fault diagnosis, and reconfiguration are explained, based o ...

11 [The consensus problem in fault-tolerant computing](#)



 Michael Barborak, Anton Dahbura, Minošlaw Malek

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(4.80 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Byzantine agreement, consensus problem, decision theory, processor membership, system diagnosis

12 [Flexible usage of parity storage space in disk arrays](#)



 Eric J. Schwabe, Ian M. Sutherland

June 1996 **Proceedings of the eighth annual ACM symposium on Parallel algorithms and architectures**

Publisher: ACM Press

Full text available:  [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

13 [Resourceful systems for fault tolerance, reliability, and safety](#)



 Russell J. Abbott

March 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(3.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Above all, it is vital to recognize that completely guaranteed behavior is impossible and that there are inherent risks in relying on computer systems in critical environments. The unforeseen consequences are often the most disastrous [Neumann 1986]. Section 1 of this survey reviews the current state of the art of system reliability, safety, and fault tolerance. The emphasis is on the contribution of software to these areas. Section 2 reviews current approaches to software fault ...

14 [Fault-tolerance in the advanced automation system](#)



 Flaviu Cristian, Bob Dancey, Jon Dehn

September 1990 **Proceedings of the 4th workshop on ACM SIGOPS European**

workshop**Publisher:** ACM PressFull text available:  pdf(1.39 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Advanced Automation System is a distributed real-time system under development by IBM's Systems Integration Division for the US Federal Aviation Administration. The system is intended to replace the present en-route and terminal approach US air traffic control computer systems over the next decade. High availability of air traffic control services is an essential requirement of the system. This paper discusses the general approach to fault-tolerance adopted in AAS, by reviewing some of the q ...

15 Specification and verification of fault-tolerance, timing, and scheduling  Zhiming Liu, Mathai Joseph**January 1999 ACM Transactions on Programming Languages and Systems (TOPLAS),**

Volume 21 Issue 1

Publisher: ACM PressFull text available:  pdf(511.32 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Fault-tolerance and timing have often been considered to be implementation issues of a program, quite distinct from the functional safety and liveness properties. Recent work has shown how these non-functional and functional properties can be verified in a similar way. However, the more practical question of determining whether a real-time program will meet its deadlines, i.e., showing that there is a feasible schedule, is usually done using scheduling theory, quite separately from the ver ...

Keywords: fault-tolerance, real time, schedulability, specification, transformation, verification

16 Constructing replicated systems using processors with point-to-point communication  links

P. D. Ezhilchelvan, S. K. Shrivastava, A. Tully

April 1989 ACM SIGARCH Computer Architecture News , Proceedings of the 16th annual international symposium on Computer architecture ISCA '89, Volume 17 Issue 3**Publisher:** ACM PressFull text available:  pdf(948.34 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Replicated processing with majority voting is a well known method of achieving fault tolerance. We consider the problem of constructing a distributed system composed of an arbitrarily large number of N-modular redundant (NMR) nodes, where each node itself is composed of N, N = 2m + 1 and m ≥ 1, processing and voting elements. Advanced microprocessors, such as Inmos Transputers, provide fast serial communication links for inter-processor communication, making it possible to construct larg ...

Keywords: N-modular redundancy, fault tolerance, majority voting, replicated processing, sequencing algorithm

17 Dynamic fault-tolerant clock synchronization  Danny Dolev, Joseph Y. Halpern, Barbara Simons, Ray Strong**January 1995 Journal of the ACM (JACM), Volume 42 Issue 1****Publisher:** ACM PressFull text available:  pdf(3.41 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper gives two simple efficient distributed algorithms: one for keeping clocks in a network synchronized and one for allowing new processors to join the network with their clocks synchronized. Assuming a fault-tolerant authentication protocol, the algorithms tolerate both link and processor failures of any type. The algorithm for maintaining synchronization works for arbitrary networks (rather than just completely connected networks) and tolerates any number of processor or communicat ...

Keywords: Byzantine failures, clock synchronization, fault-tolerance, time-of-day clock

18 [Fault-Tolerant Software for Real-Time Applications](#)



H. Hecht

December 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.43 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 [Performance and dependability evaluation of scalable massively parallel computer systems with conjoint simulation](#)



Axel Hein, Mario Dal Cin

October 1998 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,

Volume 8 Issue 4

Publisher: ACM Press

Full text available: [pdf\(501.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Computer systems are becoming more and more a part of our daily life; business and industry rely on their service, and the health of human beings depends on their correct functioning. Computer systems used for critical tasks have to be carefully designed and tested during the early design stage, the prototype phase, and their operational life. Methods and tools are required to support and facilitate this vital task. In this article, we tackle the issue of system-level performance and depen ...

Keywords: fault-tolerant and large-scale computer systems, hierarchical model design, object-oriented modeling, process-based simulation, timed Petri nets

20 [Fault-tolerance in air traffic control systems](#)



Flaviu Cristian, Bob Dancey, Jon Dehn

August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: [pdf\(264.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The distributed real-time system services developed by Lockheed Martin's Air Traffic Management group serve the infrastructure for a number of air traffic control systems. Either completed development or under development are the US Federal Aviation Administration's Display System Replacement (DSR) system, the UK Civil Aviation Authority's New Enroute Center (NERC) system, and the Republic of China's Air Traffic Control Automated System (ATCAS). These systems are intended to replace present ...

Keywords: exception handling, failure, failure classification, failure masking, failure semantics, fault-tolerant systems, group communications, redundancy, server group, software robustness, system architecture

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Relevance scale

1 [SRI workshop summary: "domain analysis in the DoD"](#)
 Frank Svoboda, Fred Maymir-Ducharme, Jeff Poulin
 January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1
Publisher: ACM Press
 Full text available: pdf(1.40 MB) Additional Information: [full citation](#), [abstract](#)
 The Workshop on "Domain Analysis in the DoD," sponsored by the Software Reuse Initiative (SRI) and Defense Information Systems Agency (DISA), was held at MITRE Corporation, in McLean, Virginia on 26 - 27 September 1995. The primary purpose of the workshop was to discuss issues related to identifying and scoping domains with emphasis on product lines and to assess the usefulness of the strawman SRI Domain Scoping Framework as a proposed basis for this scoping activity. To this end, two specific o ...

2 [Case-based reasoning and the deep structure approach to knowledge representation](#)
 Andrzej Kowalski
 May 1991 **Proceedings of the 3rd international conference on Artificial intelligence and law**
Publisher: ACM Press
 Full text available: pdf(882.94 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Tutorials: User interface design for the web](#)
 David Shen, Irene Au, Brian Buschmann
 May 1999 **CHI '99 extended abstracts on Human factors in computing systems**
Publisher: ACM Press
 Full text available: pdf(126.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#)
 In this half day tutorial, we describe a variety of user interface design principles which are characteristic of Web design. These principles have been implemented by, experimented with, and validated through the experiences of the Yahoo! design team.

Keywords: HTML, Java, Javascript, browser, dynamic HTML, interaction design, internet, user interface design, world wide web

4 [Designing applications for handheld devices: Navigating in a mobile XHTML application](#)

Anne Kaikkonen, Virpi Roto
April 2003 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available:  pdf(247.55 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Internet has been a great success in the fixed world, whereas WAP (Wireless Application Protocol), the mobile Internet, has not fulfilled its promise. However, now the analysts have started to believe in a rise of the mobile Internet again. WAP 2.0, with XHTML Mobile Profile as its standard language, will enable sites to function both in the fixed and wireless worlds. In this paper, we analyze different ways to navigate XHTML sites with mobile phones and base our analysis on two usability ev ...

Keywords: WAP, XHTML mobile profile, mobile internet, mobile phones, navigation, wireless web

5 Redesigning a large and complex website: how to begin, and a method for success 

Elaine Chou
November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available:  pdf(598.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In a technology-oriented, information-intense world, one of the largest challenges facing higher education is the organization, communication, and presentation of information in a coherent and usable fashion via the world wide web. The Learning Team, a part of Information Technology at the College of William and Mary, offers vision and a solution for developing a robust web-based information architecture to centrally administer customized learning modules and services as well as promote web-base ...

Keywords: accessibility, automation, communications, consistency, efficiency, information architecture, internet, just-in-time, learning, needs assessment, support, task analysis, training, usability, web services, web site

6 Topology & MAC: Fault tolerant deployment and topology control in wireless networks 

Xiang-Yang Li, Peng-Jun Wan, Yu Wang, Chih-Wei Yi
June 2003 **Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing**

Publisher: ACM Press

Full text available:  pdf(269.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper investigate fault tolerance for wireless ad hoc networks. We consider a large-scale of wireless networks whose nodes are distributed randomly in a unit-area square region. Given n wireless nodes V , each with transmission range r_n , the wireless networks are often modeled by graph $G(V, r_n)$ in which two nodes are connected if their Euclidean distance is no more than r_n . We first consider how the transmission range is relat ...

Keywords: connectivity, fault tolerance, topology control, wireless ad hoc networks

7

A study of Ostrowski efficiency for composite iteration algorithms 

8 Alan Feldstein, Roger M. Firestone
8 August 1969 **Proceedings of the 1969 24th national conference**

Publisher: ACM Press

Full text available:  pdf(549.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The following question is investigated: Is it possible for the function composition of Hermite interpolatory iteration algorithms to result in an increase in the Ostrowski efficiency? A detailed investigation is carried out to discover those cases when the answer is yes. Several interesting, new algorithms are uncovered. Each has a theoretical efficiency greater than that of either the secant method or of Newton's method.

8 Empirically validated web page design metrics 

8 Melody Y. Ivory, Rashmi R. Sinha, Marti A. Hearst

8 March 2001 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available:  pdf(152.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A quantitative analysis of a large collection of expert-rated web sites reveals that page-level metrics can accurately predict if a site will be highly rated. The analysis also provides empirical evidence that important metrics, including page composition, page formatting, and overall page characteristics, differ among web site categories such as education, community, living, and finance. These results provide an empirical foundation for web site design guidelines and also suggest which me ...

Keywords: Web site design, World Wide Web, automated usability evaluation, empirical studies

9 ACM SIGOIS worldwide membership directory 

9 April 1995 **ACM SIGOIS Bulletin**, Volume 15 Issue SI

Publisher: ACM Press

Full text available:  pdf(4.34 MB) Additional Information: [full citation](#), [index terms](#)

10 Sitemaps, storyboards, and specifications: a sketch of Web site design practice 

10 Mark W. Newman, James A. Landay

10 August 2000 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Publisher: ACM Press

Full text available:  pdf(570.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Through a study of web site design practice, we observed that designers employ multiple representations of web sites as they progress through the design process, and that these representations allow them to focus on different aspects of the design. Designers also employ multiple tools during the course of a project, including graphic design, web development, presentation, and word processing software, as well as pen and paper. Sketching on paper is especially important during the design exp ...

Keywords: ethnography, informal interfaces, information architecture, web site design, work analysis

11 Remote operation calls in a heterogeneous environment 

11 T. Patrick Martin, David T. Barnard, Ian A. Macleod, Brent Nordin, R. Mark Fleming
January 1988 **Proceedings of the 1988 ACM SIGSMALL/PC symposium on ACTES**

Publisher: ACM Press

Full text available:  pdf(555.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Remote Operation Calls (ROC's) are a mechanism for remote execution in a network of personal computers. This paper describes the implementation of a version of ROC's that function in a heterogeneous environment consisting of a network of personal computers and SUN/UNIX machines.

12 An integrative model of information systems use in mandatory environments

Patrick Rawstorne, Rohan Jayasuriya, Peter Caputi

December 1998 **Proceedings of the international conference on Information systems**

Publisher: Association for Information Systems

Full text available:  pdf(27.56 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: IS development, IS development strategies, software reuse

13 Mobile computing and applications (MCA): A comparison of randomized and

evolutionary approaches for optimizing base station site selection

Larry Raisanen, Roger M. Whitaker, Steve Hurley

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  pdf(294.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

It is increasingly important to optimally select base stations in the design of cellular networks, as customers demand cheaper and better wireless services. From a set of potential site locations, a subset needs to be selected which optimizes two critical objectives: service coverage and financial cost. As this is an NP-hard optimization problem, heuristic approaches are required for problems of practical size. Our approach consists of two phases which act upon a set of candidate site permutations ...

Keywords: base station selection, cell planning, multiple objective optimization

14 Oral presentation session VI: coverage and connectivity: Naps: scalable, robust

topology management in wireless ad hoc networks

P. Brighten Godfrey, David Ratajczak

April 2004 **Proceedings of the third international symposium on Information processing in sensor networks**

Publisher: ACM Press

Full text available:  pdf(369.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Topology management schemes conserve energy in wireless ad hoc networks by identifying redundant nodes that may turn off their radios or other components while maintaining connectivity. We present Naps, a randomized topology management scheme that does not rely on geographic location information, provides flexibility in the target density of waking nodes, and sends only a periodic heartbeat message between waking neighbors; thus it is implementable even on modest hardware. We formally analyze the ...

Keywords: percolation theory, sensor networks, simulation, topology management, wireless ad hoc networks

15 Late breaking results: the medium is the message: Multimodal interaction techniques for the virtual workbench 

A. Fleming Seay, David Krum, Bill Ribarsky, Larry Hodges

May 1999 **CHI '99 extended abstracts on Human factors in computing systems**

Publisher: ACM Press

Full text available:  pdf(282.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The present study investigated the differential levels of effectiveness of various interaction techniques on a simple rotation and translation task on the virtual workbench. Manipulation time and number of collisions were measured for subjects using four device sets (unimanual glove, bimanual glove, unimanual stick, and bimanual stick). Participants were also asked to subjectively judge each device's effectiveness. Performance results indicated a main effect for device but not for number of hand ...

Keywords: 3-D object manipulation, interaction techniques, novel devices, pinch gloves, virtual workbench

16 Dissertation Abstracts in Computer Graphics 

April 1989 **ACM SIGGRAPH Computer Graphics**, Volume 23 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.40 MB) Additional Information: [full citation](#), [abstract](#)

The response to the publication of abstracts from masters and doctoral theses in computer graphics has been overwhelmingly positive. This has not, however, increased the number of schools participating. In fact, the number of schools represented in this year's list has dropped by 65 percent, and only three schools have participated both years. (Three additional schools are represented both years due to abstracts accidentally omitted from last year's list). Since there are limited opportunities to ...

17 A formative evaluation of a computer-based instruction tutorial with application to electronic performance support systems 

Gloria A. Reece, Linda Bol, Gary R. Morrison

October 1996 **Proceedings of the 14th annual international conference on Systems documentation: Marshaling new technological forces: building a corporate, academic, and user-oriented triangle**

Publisher: ACM Press

Full text available:  pdf(1.46 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

18 Comparison and evaluation of multiple objective genetic algorithms for the antenna placement problem 

Larry Raisanen, Roger M. Whitaker

February 2005 **Mobile Networks and Applications**, Volume 10 Issue 1-2

Publisher: Kluwer Academic Publishers

Full text available:  pdf(226.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The antenna placement problem, or cell planning problem, involves locating and configuring infrastructure for cellular wireless networks. From candidate site locations, a set needs to be selected against objectives relating to issues such as financial cost and service provision. This is an NP-hard optimization problem and consequently heuristic approaches are necessary for large problem instances. In this study, we use a greedy algorithm to select and configure base station locations. The perfor ...

Keywords: antenna placement, genetic algorithms

19 Objects I: Effects of rendering on shape perception in automobile design 

 James A. Ferwerda, Stephen H. Westin, Randall C. Smith, Richard Pawlicki
August 2004 **Proceedings of the 1st Symposium on Applied perception in graphics and visualization APGV '04**

Publisher: ACM Press

Full text available:  pdf(502.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goal of this project was to determine if advanced rendering methods such as global illumination allow more accurate discrimination of shape differences than standard rendering methods such as OpenGL. To address these questions, we conducted two psychophysical experiments to measure observers' sensitivity to shape differences between a physical model and rendered images of the model. Two results stand out: • The rendering method used has a significant effect on the ability to discriminate ...

Keywords: fidelity, perception, rendering, shape

20 Planar Geometric Projections and Viewing Transformations 

 Ingrid Carlbom, Joseph Paciorek
December 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.81 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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